

GENERATOR



MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:
Hazardous waste, solid, n.o.s. (D007)

1996
NORTH AMERICAN
EMERGENCY RESPONSE
GUIDEBOOK

TAKEN FROM GUIDE 171 OF THE 1996 NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- Some may burn, but none ignite readily.
- Some may polymerize (P) explosively when heated or involved in a fire.
- Containers may explode when heated.
- Some may be transported hot.

HEALTH

- Inhalation of material may be harmful.
- Contact may cause burns to skin and eyes.
- Inhalation of Asbestos dust may have a damaging effect on the lungs.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "WOPR").
- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Fire

- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

Small Fires

- Dry chemical, CO₂, water spray or regular foam.

Large Fires:

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not scatter spilled material with high pressure water streams.
- Dike fire-control water for later disposal.

Fire Involving Tanks:

- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from the ends of tanks.

SPILL OR LEAK

- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent dust cloud.
- Avoid inhalation of asbestos dust.

Small Dry Spills

- With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

Small Spills

- Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills

- Dike far ahead of liquid spill for later disposal.
- Cover powder spill with plastic sheet or tarp to minimize spreading.
- Prevent entry into waterways, sewers, basements or confined areas.

FIRST AID

- Move victim to fresh air.
- Call emergency medical care.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

NOTICE

TO: World Resource Company
8112 West Sherman Street
Phoenix, Arizona 85043

From: Alaskan Copper Works
628 South Hanford Street
Seattle, Washington 98134

SUBJECT: Land Disposal Restriction Notice

Manifest Number: 99001

Date of Shipment: 1-26-99

This shipment of material, which is being provided for recycling, is subject to the land disposal restrictions of 40 CFR, Part 268, Subpart D or the prohibitions specified in 268.32 or RCRA 3004(d). The applicable Land Disposal Restriction Information is provided in accordance with 40 CFR 268.7 and is shown below:

EPA Material Number	Regulated Constituent	Subcategory	Treatability Group	Treatment Standards	
				CFR Reference	Prohibition Level
D007	N/A	N/A	Nonwastewater	40 CFR 268.41 40 CFR 268.43	---

By: Gerald A. Thompson
Alaskan Copper Environmental Assistant

Material Safety Data Sheet

D007 Recyclable Material

Recycler's Facility Name and Site Address:

World Resources Company

8113 West Sherman Street

Phoenix, Arizona 85043

Tel: 1-602-233-9166 Fax: 602-936-9164

Issued: 3/18/94

Call CHEMTREC only in the event of
emergencies during shipping that
involve a spill, leak, fire, or accident
(all calls are recorded)

For Emergencies During Shipping in
the US or Canada, Day or Night,
Call: **CHEMTREC 800-424-9300**
(Use CHEMTREC Company Code "W0RR")
For calls from other countries call:
202-483-7616 Collect

Section 1

Environmental Protection Agency (EPA) Waste Classification: D007

Generic Name: Chromium metal bearing sludge

Chemical Family: Non-Ferrous metal particulates

Synonym: Metallic Residues From High Frequency Burning Table

PRODUCT - MATERIAL IDENTIFICATION

DOT Shipping Name: RQ, Hazardous Waste, Solid, n.o.s. (D007)

DOT Hazard Class: 9 ; **Packing Group:** III

DOT Identification Number: NA 3077

DOT Emergency Response Guide: 31 Applies

Section 2

HAZARDOUS INGREDIENTS

Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology:
Aluminum	7429-90-5	0-5	10 mg/m ³	No Data Available
Chromium	7440-47-3	0-15	0.5 mg/m ³	2.75 mg/kg (Rat, Oral)
Copper	7440-50-8	0-10	1.0 mg/m ³	0.35 mg/kg (Mouse, Oral)
Nickel	7440-02-0	0-10	1.0 mg/m ³	No Data Available
Zinc	7440-66-6	0-5	none established	No Data Available

Section 3

PHYSICAL AND REACTIVITY DATA

Description: Moist, Sandy consistency

Brown to Black colored

Water Content 10-20% by weight

Specific Gravity: 2.0 to 3.0

Solubility: Insoluble in water

Density: 100 to 150 lbs/cu/ft

Incompatible Reactivity: Extreme heat sources,

Section 4

FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable, under normal conditions

Oxidation: Non-oxidizing

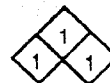
Special Firefighting Procedures: Dry Chemical

Explosive: Non-explosive

Product Decomposition: ... (Due to Fire or Explosion): Hydrogen gas, ZnO (under extreme external heat)

NFPA

Fire Diamond



Section 5

TOXICITY

Listed Carcinogen component: Chromium, Nickel **Toxicology:** See Sec. 2 (Chromium, Nickel) **Route of Entry:** Inhalation and Ingestion

Section 6

HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

Section 7

PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

Section 8

CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required.

Eye Protection: Safety Glasses recommended.

Other Protective Equipment: Coveralls are recommended, but not required.

Hand Protection: Gloves recommended.

Section 9

GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number: 74001 Telephone: (206) 823-5800 Date: 1-26-94
Company Name and Address: Alaskan Copper Works 628 Hanford St. Seattle Wa 98134

Signature: [Signature]

AZF-WRC 3/94

AKC-0017572

MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:

Hazardous waste, solid, n.o.s., (F006)

NORTH AMERICAN
EMERGENCY RESPONSE
GUIDEBOOK

TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

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PUBLIC SAFETY

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- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
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PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
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EVACUATION

Fire

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NOTICE

TO: World Resource Company
8112 West Sherman Street
Phoenix, Arizona 85043

From: Alaskan Copper Works
628 South Hanford Street
Seattle, Washington 98134

SUBJECT: Land Disposal Restriction Notice

Manifest Number: 99001

Date of Shipment: 1-26-99

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EPA Material Number	Regulated Constituent	Subcategory	Treatability Group	Treatment Standards	
				CFR Reference	Prohibition Level
F006	N/A	N/A	Nonwastewater	40 CFR 268.41 40 CFR 268.43	---

By: Gerald A. Thompson
Alaskan Copper Environmental Assistant

Material Safety Data Sheet

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

World Resources Company

8113 West Sherman Street

Phoenix, Arizona 85043

Tele: 1-602-233-9166 Fax: 602-936-9164

Issued: 8/7/90

Revised: 9/15/93 - DLS

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emergencies during shipping that
involve a spill, leak, fire, or accident
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the US or Canada, Day or Night,
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(Use Chemtrec Company Code "WORR")

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202-483-7616 Collect

Section 1

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Sludge

Environmental Protection Agency (EPA) Waste Classification: F006

Chemical Family: Metallic (Hydroxide) Precipitates

Synonym: Non-ferrous Metal Hydroxide Filter Cake

PRODUCT - MATERIAL IDENTIFICATION

DOT Shipping Name: RQ, Hazardous waste, solid, n.o.s., (F006)

DOT Hazard Class: 9 Packaging Group III

DOT Identification Number: NA 3077

DOT Emergency Response Guide 31 Applies

Section 2

HAZARDOUS INGREDIENTS

Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology: (rat, oral)
Copper Hydroxide	20427-59-2	0-30	1.0 mg/m ³ (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0-15	1.0 mg/m ³ (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0-15	5.0 mg/m ³ (Dust)	LD-50 7,340 mg/kg
Diatomaceous Earth	68855-54-9	0-10	6.0 mg/m ³ (Dust)	LD-50 3,160 mg/kg

Section 3

PHYSICAL AND REACTIVITY DATA

Description: Solid, Clay-like Clumps,
Gray/Green to Brown,
Water Content 30-80%

Specific Gravity: 1 to 1.4

Solubility: Insoluble in water

Density: 64 to 90 lbs/cu/ft

Incompatible Reactivity: None Known

Vapor Pressure: Insignificant

Stability: Avoid contact with acids

Polymerization: Will not occur

Boiling Point: Above 2600°C

Melting Point: Above 1800°C

pH: 7.0 to 10.0

Odor: Nil

Section 4

FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable

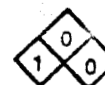
Special Firefighting Procedures: None

Product Decomposition: (Due to Fire or Explosion): None

Oxidation: Non-oxidizing

Explosive: Non-explosive

NFPA
Fire Diamond



Section 5

TOXICITY

Listed Carcinogen component: Nickel

Toxicology: See Sec. 2 (Nickel Hydroxide)

Route of Entry: Inhalation and Ingestion

Section 6

HEALTH EFFECTS AND FIRST AID

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Company Name and Address: Alaskan Copper Works 628 sixth ave. south
Seattle WA 98134

Signature:

AZF-WRC 9/93

AKC-0017575